

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P180452

Luminaire Tested: **ICS-F04-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180452
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F04-LED-E1-SL2-HSS-7030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4977.3 lumens
Efficiency: N/A
Efficacy: 48.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



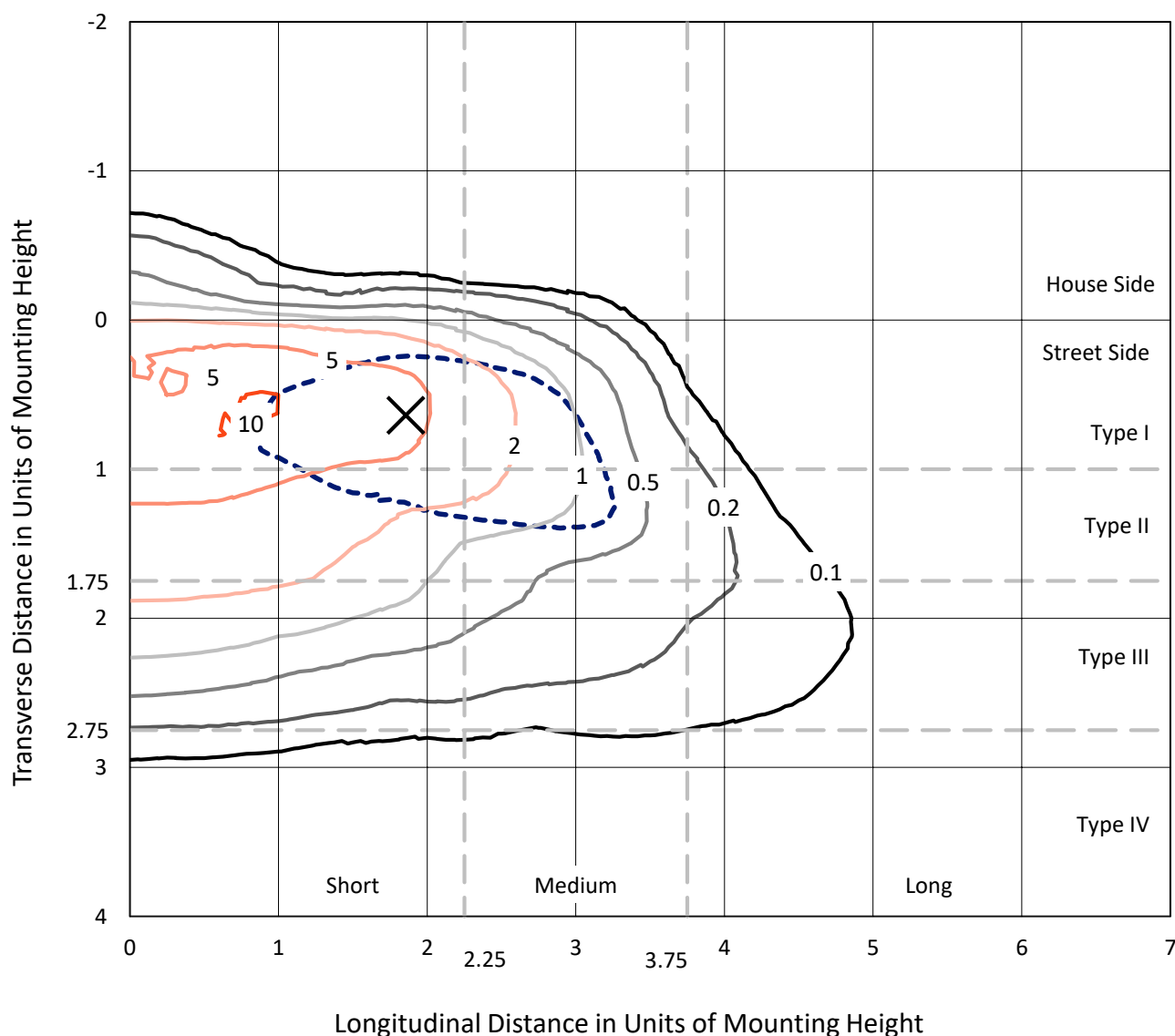
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

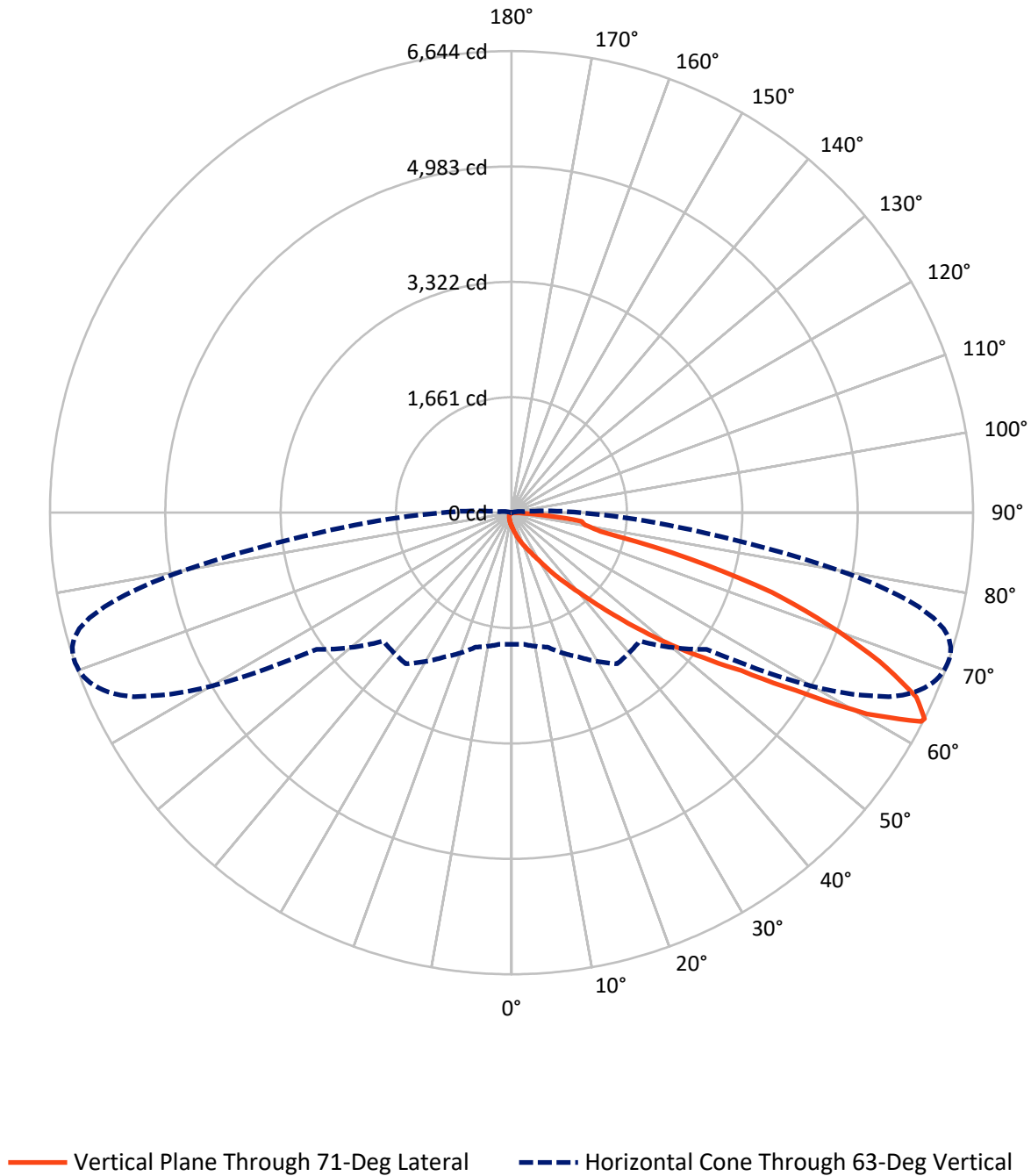


Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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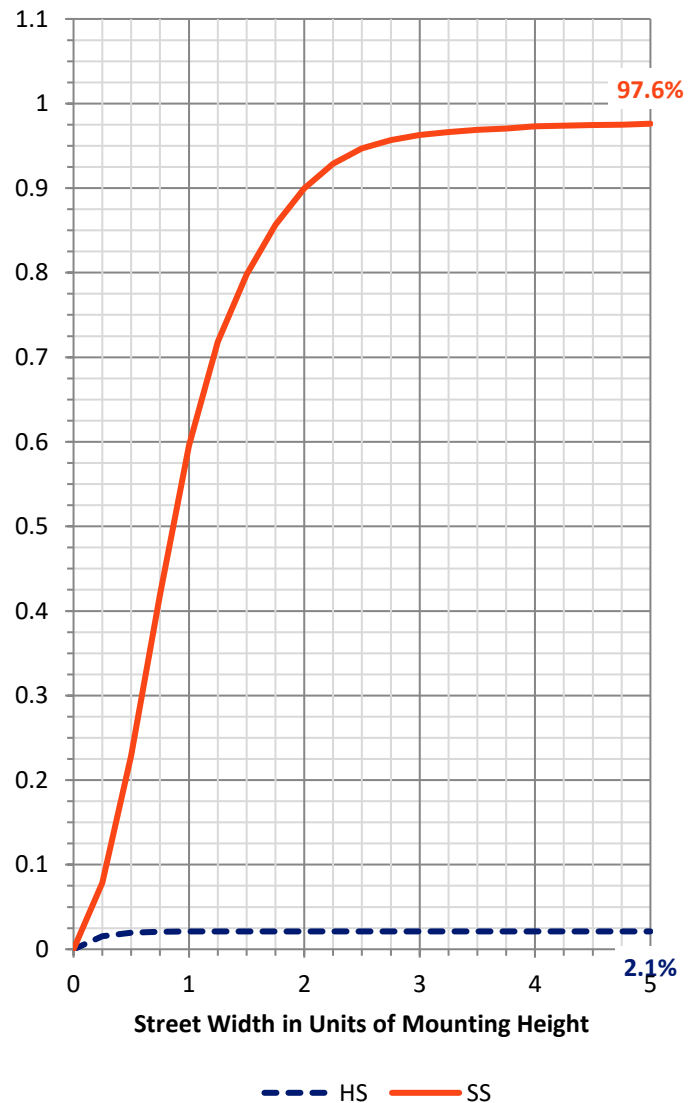
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	105.7	0.0	105.7
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	4871.6	0.0	4871.6
	% Fixture	97.9	0.0	97.9
Total	Lumens	4977.3	0.0	4977.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.1	0.4
10°-20°	81.8	1.6
20°-30°	166.2	3.3
30°-40°	406.1	8.2
40°-50°	908.3	18.2
50°-60°	1277.1	25.7
60°-70°	1501.8	30.2
70°-80°	542.3	10.9
80°-90°	72.5	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4977.3	100.0
0°-180°	4977.3	100.0

Coefficient of Utilization



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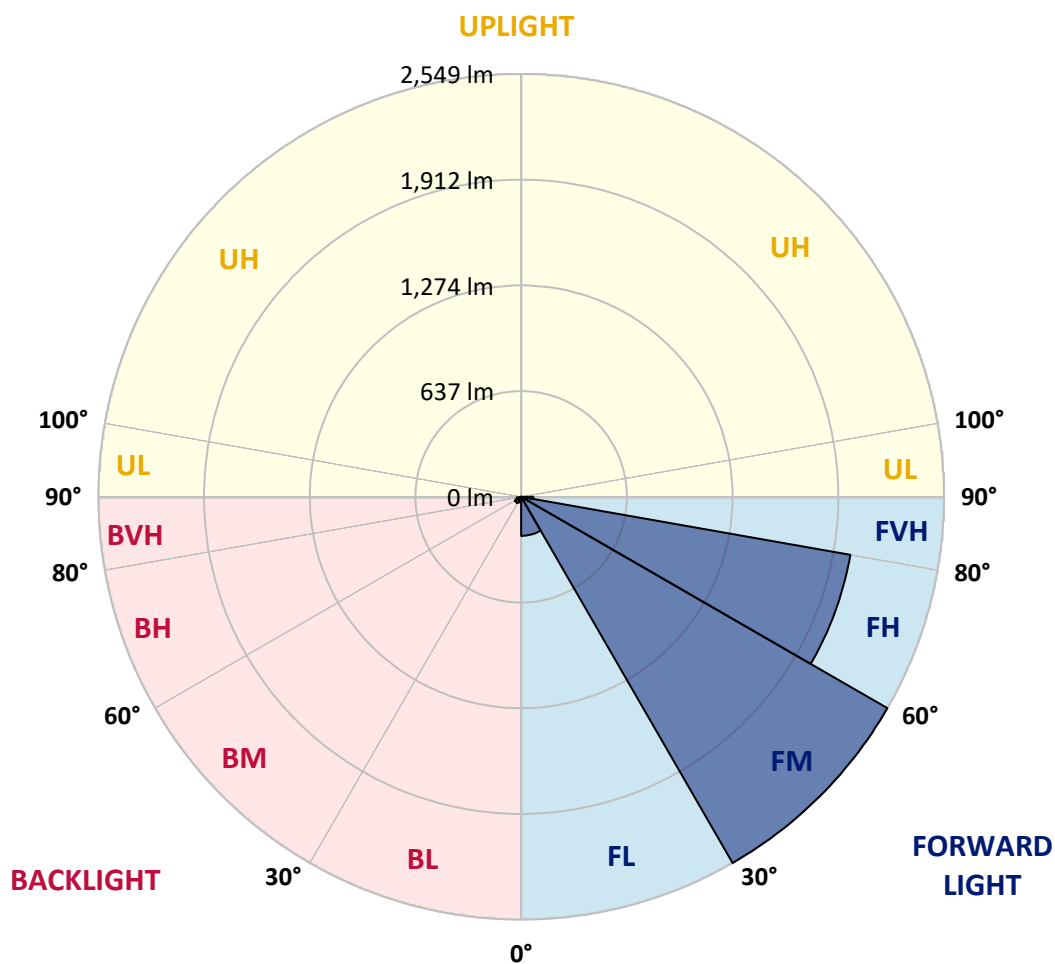
CATALOG NUMBER: ICS-F04-LED-E1-SL2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	235.2	4.7			
FM	(30°-60°)	2548.9	51.2			
FH	(60°-80°)	2015.1	40.5			G2/5000
FVH	(80°-90°)	72.4	1.5			G1/100
BL	(0°-30°)	34.0	0.7	B0/110		
BM	(30°-60°)	42.6	0.9	B0/220		
BH	(60°-80°)	29.0	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9
2.5°	249.7	252.5	250.6	246.1	240.7	233.4	227.1	227.1	226.2	223.5	224.4
5°	327.6	328.5	324.8	314.0	304.0	288.6	271.5	269.6	267.8	265.1	264.2
7.5°	403.6	407.2	403.6	391.8	371.9	348.4	321.2	318.5	313.1	313.1	309.5
10°	481.4	481.4	477.8	464.2	446.1	412.6	378.2	373.7	367.4	365.6	360.1
12.5°	536.6	536.6	534.8	527.5	513.0	483.2	441.6	437.0	428.9	426.2	419.8
15°	558.3	558.3	559.2	565.5	566.4	552.9	509.4	505.8	497.7	490.4	487.7
17.5°	571.9	571.0	571.0	580.0	596.3	605.3	577.3	573.7	564.6	561.0	552.0
20°	601.7	599.9	594.5	594.5	609.9	641.5	641.5	640.6	630.7	628.0	623.4
22.5°	646.1	644.2	628.0	614.4	621.6	661.4	698.5	696.7	693.1	689.5	686.8
25°	718.4	712.1	684.1	644.2	637.9	680.4	742.0	746.5	749.2	749.2	751.0
27.5°	827.9	819.8	770.0	695.8	667.8	711.2	789.9	799.0	807.1	808.9	817.1
30°	979.9	965.5	894.0	785.4	721.2	756.4	860.5	870.5	882.2	885.8	898.5
32.5°	1229.7	1221.5	1152.8	989.9	852.4	845.1	959.1	971.8	987.2	993.5	1008.9
35°	1609.7	1611.5	1555.4	1408.8	1218.8	1119.3	1135.6	1146.4	1151.9	1170.9	1179.0
37.5°	1867.6	1872.1	1884.8	1826.9	1691.1	1589.8	1462.2	1474.0	1445.9	1448.7	1449.6
40°	2008.7	2023.2	2097.4	2153.5	2142.7	2083.8	1981.6	1987.9	1935.5	1923.7	1866.7
42.5°	2102.9	2121.9	2240.4	2414.1	2502.8	2556.2	2532.7	2529.9	2489.2	2473.8	2425.9
45°	2161.7	2178.9	2328.2	2584.2	2788.7	2944.4	3008.6	3015.8	2981.5	2966.1	2926.3
47.5°	2159.0	2178.9	2339.0	2647.6	2948.9	3197.7	3378.7	3387.7	3408.5	3395.0	3397.7
50°	2039.5	2058.5	2219.6	2539.9	2901.8	3313.5	3644.7	3673.7	3707.1	3729.8	3740.6
52.5°	1894.7	1908.3	2051.3	2355.3	2701.0	3265.6	3802.1	3851.9	3901.7	3944.2	3974.1
55°	1841.4	1856.7	1968.9	2221.4	2539.9	3064.7	3875.4	3948.7	4019.3	4089.0	4146.0
57.5°	1869.4	1883.9	1964.4	2158.0	2444.0	2853.0	3896.2	4010.3	4126.1	4239.2	4351.4
60°	1972.6	1987.9	2056.7	2216.9	2418.6	2730.8	3814.8	4003.9	4196.7	4393.9	4579.4
62.5°	1931.8	1938.2	2039.5	2320.0	2599.6	2626.8	3518.9	3783.1	4077.2	4381.2	4680.7
63°	1892.9	1900.2	2003.3	2292.0	2654.8	2611.4	3427.5	3706.2	4016.6	4344.1	4669.9
65°	1716.5	1717.4	1796.1	2024.1	2593.3	2638.5	3020.4	3286.4	3642.9	4035.6	4447.3
67.5°	1281.3	1274.9	1350.9	1524.7	2035.9	2639.4	2592.4	2741.7	2989.6	3338.0	3707.1
70°	454.2	444.3	567.3	808.0	1268.6	2159.0	2227.7	2237.7	2306.4	2494.6	2726.3
72.5°	147.5	150.2	181.0	295.9	584.5	1453.2	2016.9	1986.1	1968.0	1967.1	1997.9
75°	58.8	59.7	72.4	131.2	262.4	700.3	1766.3	1783.4	1789.8	1798.8	1808.8
77.5°	28.1	30.8	40.7	73.3	130.3	346.6	1264.1	1409.7	1493.0	1557.2	1596.1
80°	10.0	11.8	22.6	45.2	60.6	159.3	666.0	803.5	925.7	1083.1	1218.8
82.5°	0.0	0.0	4.5	31.7	33.5	64.2	273.3	320.3	366.5	475.0	609.9
85°	0.0	0.0	0.0	9.0	10.0	10.9	92.3	111.3	124.9	145.7	168.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.7	5.4	13.6	20.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9
2.5°	222.6	221.7	221.7	219.9	219.0	217.2	216.3	213.5	212.6	212.6	212.6
5°	263.3	259.7	257.9	253.4	250.6	249.7	245.2	243.4	240.7	241.6	237.1
7.5°	308.6	302.2	299.5	293.2	291.4	285.0	283.2	278.7	276.0	270.5	268.7
10°	358.3	350.2	345.6	335.7	333.0	328.5	323.0	317.6	313.1	307.6	304.9
12.5°	415.3	408.1	404.5	390.9	384.6	378.2	371.0	363.7	356.5	352.0	345.6
15°	482.3	470.5	466.9	454.2	443.4	435.2	425.3	416.2	410.8	401.7	395.4
17.5°	548.3	536.6	533.9	514.9	503.1	497.7	486.8	475.0	465.1	456.0	446.1
20°	614.4	606.2	599.0	580.9	568.2	559.2	544.7	533.0	524.8	512.1	499.5
22.5°	680.4	672.3	666.9	647.9	636.1	623.4	610.8	598.1	586.3	571.0	556.5
25°	748.3	742.9	740.2	723.0	712.1	700.3	687.7	673.2	658.7	641.5	626.2
27.5°	818.9	820.7	815.3	811.6	799.9	791.7	771.8	761.9	751.0	730.2	711.2
30°	908.5	913.9	912.1	914.8	907.6	902.1	886.7	874.1	861.4	841.5	819.8
32.5°	1021.6	1028.8	1032.4	1042.4	1038.8	1036.9	1032.4	1014.3	1005.3	970.9	961.8
35°	1196.2	1192.6	1208.0	1216.1	1212.5	1210.7	1205.2	1195.3	1184.4	1160.0	1137.4
37.5°	1423.3	1426.9	1432.4	1416.1	1405.2	1404.3	1388.0	1378.1	1362.7	1335.5	1308.4
40°	1839.5	1816.9	1791.6	1722.8	1693.0	1675.8	1627.8	1614.2	1588.0	1550.9	1522.8
42.5°	2380.6	2358.0	2282.0	2167.1	2105.6	2020.5	1981.6	1933.6	1896.5	1835.9	1803.3
45°	2918.1	2853.0	2843.9	2710.0	2634.0	2521.8	2452.1	2371.6	2287.4	2207.8	2149.9
47.5°	3371.4	3357.0	3312.6	3231.2	3160.6	3066.5	2976.9	2853.0	2766.1	2653.0	2548.9
50°	3734.3	3733.4	3717.1	3670.0	3611.2	3535.2	3456.5	3351.5	3252.9	3114.5	3003.2
52.5°	4005.7	4020.2	4025.6	4011.2	3988.5	3921.6	3881.8	3794.0	3710.8	3593.1	3472.8
55°	4204.8	4258.2	4285.3	4316.1	4309.8	4286.2	4284.4	4227.4	4189.4	4096.2	4011.2
57.5°	4450.9	4538.7	4622.8	4772.1	4777.6	4830.0	4857.2	4884.3	4891.6	4854.5	4826.4
60°	4764.0	4943.1	5102.4	5414.6	5496.0	5624.5	5707.7	5798.2	5875.1	5881.5	5879.7
62.5°	4984.8	5260.7	5517.7	5981.0	6139.3	6287.7	6399.0	6486.8	6540.2	6594.5	6619.8
63°	4991.1	5293.3	5566.6	6044.3	6210.8	6352.0	6457.9	6539.3	6595.4	6628.0	6644.3
65°	4838.2	5204.6	5530.4	6006.3	6162.9	6304.9	6360.1	6413.5	6440.7	6453.3	6405.4
67.5°	4100.7	4459.1	4839.1	5371.1	5505.1	5675.2	5720.4	5747.6	5760.2	5757.5	5716.8
70°	3066.5	3366.9	3789.5	4397.5	4574.9	4741.4	4844.5	4888.9	4903.3	4898.8	4838.2
72.5°	2140.9	2317.3	2665.7	3342.5	3584.1	3797.6	3925.2	3991.3	4004.8	3977.7	3921.6
75°	1797.9	1807.0	1885.7	2255.8	2482.0	2710.0	2853.9	2895.5	2868.3	2786.0	2643.0
77.5°	1605.2	1625.1	1625.1	1680.3	1724.6	1788.0	1801.5	1700.2	1582.6	1430.6	1307.5
80°	1346.4	1416.1	1464.9	1505.7	1510.2	1497.5	1464.0	1407.0	1316.5	1200.7	1072.2
82.5°	818.0	955.5	1011.6	1221.5	1324.7	1394.4	1388.9	1312.9	1244.2	1123.8	1014.3
85°	206.3	222.6	241.6	314.0	352.0	429.8	478.7	501.3	509.4	467.8	423.5
87.5°	19.9	13.6	22.6	17.2	24.4	18.1	24.4	22.6	28.1	29.9	32.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9
2.5°	210.8	209.9	209.0	208.1	207.2	206.3	204.5	204.5	202.7	201.8	200.9
5°	234.4	232.5	231.6	229.8	227.1	225.3	222.6	219.0	216.3	215.4	213.5
7.5°	264.2	259.7	257.9	255.2	251.5	246.1	242.5	239.8	235.3	232.5	227.1
10°	297.7	293.2	287.7	282.3	276.9	270.5	266.0	262.4	255.2	251.5	245.2
12.5°	340.2	332.1	325.7	318.5	311.3	304.0	298.6	287.7	281.4	273.3	267.8
15°	383.7	376.4	369.2	360.1	349.3	337.5	332.1	322.1	314.0	301.3	294.1
17.5°	436.1	422.6	411.7	400.8	390.9	380.0	369.2	353.8	342.0	331.2	316.7
20°	487.7	471.4	459.7	445.2	430.7	413.5	400.8	390.0	373.7	359.2	343.8
22.5°	542.9	526.6	507.6	493.1	473.2	459.7	442.5	424.4	408.1	389.1	370.1
25°	609.9	592.7	571.0	552.0	529.3	510.3	489.5	468.7	448.8	427.1	402.7
27.5°	692.2	674.1	650.6	628.0	598.1	574.6	554.7	526.6	501.3	474.1	446.1
30°	796.3	776.4	747.4	714.8	685.0	658.7	630.7	593.6	565.5	533.0	496.8
32.5°	932.0	908.5	869.6	838.8	801.7	767.3	728.4	691.3	651.5	609.0	567.3
35°	1103.0	1081.3	1036.0	990.8	950.1	909.4	860.5	818.0	761.9	710.3	656.9
37.5°	1280.4	1241.4	1199.8	1151.0	1100.3	1051.4	991.7	932.9	868.6	812.5	745.6
40°	1483.0	1436.0	1401.6	1349.1	1277.6	1208.0	1152.8	1079.5	998.9	923.8	845.1
42.5°	1760.8	1708.3	1646.8	1567.2	1515.6	1434.2	1362.7	1275.8	1170.0	1085.8	990.8
45°	2082.0	2010.6	1950.8	1873.9	1811.5	1710.2	1626.9	1511.1	1405.2	1294.8	1179.0
47.5°	2448.5	2359.8	2273.0	2197.0	2097.4	1997.9	1892.0	1769.0	1633.2	1512.0	1374.5
50°	2869.3	2743.5	2623.1	2525.4	2388.8	2273.9	2159.0	2020.5	1870.3	1731.0	1574.4
52.5°	3337.1	3191.4	3032.1	2881.9	2723.6	2576.1	2437.6	2278.4	2111.0	1940.9	1766.3
55°	3901.7	3792.2	3604.9	3414.0	3202.2	3005.0	2826.7	2629.5	2425.9	2202.4	2018.7
57.5°	4785.7	4732.3	4575.8	4384.9	4108.9	3869.1	3566.9	3325.3	3030.3	2722.7	2485.6
60°	5983.7	5917.7	5829.9	5675.2	5456.2	5130.5	4797.5	4422.0	3973.2	3547.0	3142.5
62.5°	6622.5	6599.0	6527.5	6420.8	6216.3	5959.3	5623.6	5211.0	4704.3	4186.7	3670.9
63°	6641.5	6611.7	6550.1	6441.6	6261.5	6012.7	5683.3	5282.5	4786.6	4259.1	3732.5
65°	6384.6	6372.8	6310.4	6191.8	6068.8	5878.8	5623.6	5278.8	4862.6	4364.0	3840.1
67.5°	5662.5	5627.2	5531.3	5495.1	5409.1	5277.0	5082.5	4845.4	4547.7	4155.9	3703.5
70°	4789.3	4736.8	4616.5	4552.3	4447.3	4364.0	4245.5	4076.3	3892.6	3619.4	3281.9
72.5°	3863.7	3755.1	3644.7	3477.3	3330.7	3182.3	3051.1	2931.7	2729.9	2619.5	2363.4
75°	2509.1	2311.9	2122.8	1869.4	1641.4	1439.6	1243.3	1143.7	936.5	852.4	732.0
77.5°	1190.8	1080.4	932.0	817.1	670.5	547.4	447.0	335.7	263.3	206.3	157.4
80°	960.9	867.7	778.2	674.1	563.7	449.7	344.7	257.9	182.8	126.7	89.6
82.5°	856.9	755.5	645.2	573.7	498.6	408.1	334.8	273.3	201.8	147.5	100.4
85°	333.0	280.5	216.3	176.4	137.5	113.1	102.2	70.6	55.2	43.4	33.5
87.5°	29.0	23.5	19.0	12.7	13.6	7.2	8.1	5.4	4.5	4.5	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9
2.5°	200.0	199.1	198.2	196.4	196.4	194.5	193.6	192.7	188.2	178.3	170.1
5°	209.9	208.1	206.3	203.6	201.8	199.1	197.3	194.5	184.6	165.6	149.3
7.5°	224.4	220.8	218.1	212.6	209.9	206.3	203.6	199.1	182.8	153.8	131.2
10°	241.6	235.3	230.7	224.4	219.0	214.4	209.9	203.6	181.0	141.2	114.9
12.5°	262.4	255.2	246.1	238.9	231.6	225.3	219.0	210.8	178.3	130.3	102.2
15°	283.2	272.4	266.0	256.1	246.1	237.1	228.0	220.8	179.2	118.5	91.4
17.5°	306.7	295.9	282.3	271.5	260.6	248.8	238.0	223.5	174.6	109.5	83.2
20°	329.4	314.0	301.3	287.7	272.4	257.9	244.3	231.6	171.0	100.4	76.0
22.5°	353.8	335.7	319.4	302.2	283.2	266.9	250.6	234.4	164.7	92.3	69.7
25°	383.7	362.8	339.3	318.5	298.6	278.7	257.9	238.0	158.3	85.1	65.1
27.5°	419.8	392.7	369.2	342.9	314.9	289.5	266.9	245.2	152.0	79.6	60.6
30°	466.0	434.3	400.8	367.4	337.5	308.6	276.9	249.7	145.7	74.2	56.1
32.5°	527.5	487.7	447.0	408.1	368.3	331.2	297.7	262.4	142.1	69.7	51.6
35°	609.0	557.4	507.6	458.8	410.8	365.6	322.1	282.3	142.1	64.2	46.1
37.5°	685.9	626.2	562.8	502.2	445.2	392.7	341.1	293.2	134.8	59.7	41.6
40°	769.1	697.6	623.4	552.0	483.2	418.0	359.2	304.0	128.5	54.3	37.1
42.5°	896.7	806.2	709.4	626.2	543.8	463.3	390.0	324.8	120.3	48.9	32.6
45°	1064.1	949.2	835.2	733.8	628.9	530.2	443.4	362.8	118.5	44.3	28.1
47.5°	1243.3	1107.5	973.6	844.2	721.2	606.2	502.2	405.4	118.5	39.8	24.4
50°	1421.5	1251.4	1108.4	958.2	819.8	684.1	560.1	449.7	119.4	36.2	19.9
52.5°	1582.6	1400.7	1240.5	1066.8	913.9	756.4	621.6	493.1	117.6	31.7	16.3
55°	1806.1	1592.5	1407.0	1215.2	1036.0	858.7	705.8	558.3	118.5	28.1	13.6
57.5°	2217.8	1967.1	1743.6	1492.1	1285.8	1056.9	871.4	692.2	129.4	23.5	10.0
60°	2808.6	2482.9	2168.9	1862.2	1599.8	1327.4	1086.7	875.9	152.0	19.0	7.2
62.5°	3205.9	2779.7	2405.1	2066.7	1761.7	1476.7	1214.3	974.5	167.4	15.4	4.5
63°	3246.6	2805.9	2429.5	2080.2	1769.0	1483.9	1219.7	981.8	168.3	14.5	4.5
65°	3323.5	2851.2	2443.1	2082.9	1761.7	1474.0	1216.1	980.8	170.1	11.8	3.6
67.5°	3235.7	2781.5	2364.4	2005.1	1698.4	1415.2	1170.9	944.7	169.2	8.1	2.7
70°	2893.7	2517.3	2150.8	1816.0	1537.3	1281.3	1065.9	861.4	155.6	5.4	1.8
72.5°	2124.6	1868.5	1584.4	1342.8	1158.2	961.8	820.7	647.0	120.3	3.6	0.9
75°	629.8	573.7	482.3	425.3	375.5	310.4	276.0	215.4	61.5	1.8	0.0
77.5°	125.8	114.0	102.2	93.2	87.8	75.1	71.5	58.8	25.3	0.9	0.0
80°	66.1	54.3	46.1	40.7	35.3	29.0	24.4	19.9	4.5	0.0	0.0
82.5°	63.3	42.5	30.8	25.3	21.7	17.2	13.6	10.0	2.7	0.0	0.0
85°	23.5	18.1	13.6	10.9	9.0	8.1	6.3	5.4	0.0	0.0	0.0
87.5°	3.6	2.7	2.7	1.8	1.8	0.9	0.9	0.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	190.9	190.9	190.9	190.9	190.9	190.9	190.9
2.5°	162.0	154.7	151.1	146.6	146.6	145.7	147.5
5°	134.8	124.9	117.6	112.2	113.1	110.4	111.3
7.5°	114.0	104.1	97.7	94.1	93.2	92.3	92.3
10°	98.6	89.6	84.2	81.4	80.5	80.5	80.5
12.5°	87.8	78.7	74.2	72.4	72.4	71.5	71.5
15°	78.7	71.5	67.0	65.1	65.1	64.2	65.1
17.5°	71.5	64.2	60.6	58.8	58.8	57.9	57.9
20°	65.1	58.8	55.2	52.5	52.5	51.6	52.5
22.5°	59.7	53.4	48.9	47.1	46.1	45.2	46.1
25°	54.3	48.0	43.4	40.7	39.8	39.8	38.9
27.5°	49.8	43.4	38.0	35.3	34.4	34.4	33.5
30°	45.2	38.0	32.6	29.9	29.0	29.0	29.0
32.5°	40.7	32.6	28.1	25.3	24.4	24.4	24.4
35°	36.2	28.1	23.5	20.8	19.9	19.9	19.9
37.5°	30.8	23.5	18.1	16.3	15.4	14.5	14.5
40°	26.2	18.1	13.6	11.8	10.0	10.0	10.0
42.5°	21.7	14.5	10.0	7.2	6.3	5.4	6.3
45°	18.1	10.9	6.3	3.6	2.7	2.7	2.7
47.5°	14.5	7.2	2.7	0.9	0.9	0.9	0.9
50°	10.9	4.5	0.9	0.0	0.0	0.9	0.9
52.5°	8.1	2.7	0.0	0.0	0.0	0.0	0.0
55°	4.5	0.9	0.0	0.0	0.0	0.0	0.0
57.5°	2.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.9	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)